

Page 1 of 1

All amounts are calculated in domestic currency.

All Vendors PO ID PO33758 Receipt Dates from 10/3/2016 to 10/3/2016

Total Received Quantity:	316,5830
Total Qty to Inspect (PO U/M):	0.0000
Total Reject Quantity:	0.0000
Total Receipt Value:	\$0.00
Total Balance Due Quantity:	24,1670



O'Neal High-Performance Metals Group

Packing Slip



ORDER NO.: 80808543 FROM: CHIC PAGE 1

CUST NUMBER: 1203820 NET WGT: 116.857 REQ. DATE: 10/04/16 EARLY
SHIP TO: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKSBURY ON CN K6A 1K7
SALES PERSON: GLENN SCOTT
TERMS: NET 30 DAYS
F.O.B.: DESTINATION
CUST ORD NO.: PO33758

SHIP BY: 09/26/16 COMMON CARRIER
VIA: FREIGHT: RELEASE NO.: RECEIVING PHONE: WIDTH
LINE ITEM DESCRIPTION 0001 33047 CDS 4130 6736 3/4 X .049
ORD QTY INVOICE QTY SHIPPED QTY
60.000 FT 71.750 FT 71.750 FT
CLN# WT 26.312
PCS 3

** 1 TEST REPORTS REQUIRED **
ECCN: 9A991.d
PO: 49346768 HT: 595622
MFG: GERMANY
Export License: NLR
CUSTOMER QTY: SLB/CL: 1621379
Expiration Date: 0/00/00
CLN# ORD QTY INVOICE QTY SHIPPED QTY
48.000 FT 48.000 FT 48.000 FT
WT 4.545
PCS 4

** 1 TEST REPORTS REQUIRED **
ECCN: FAR99
PO: 49348850 HT: 161528
MFG: UNITED STATES
Export License: NLR
CUSTOMER QTY: SLB/CL: 406417
Expiration Date: 0/00/00
CLN# ORD QTY INVOICE QTY SHIPPED QTY
93.000 LB 93.000 LB 86.000 LB
WT 86.000
PCS 15

** 1 TEST REPORTS REQUIRED **
ECCN: FAR99
PO: 49358028 HT: 56900658
MFG: PORTUGAL
Export License: NLR
CUSTOMER QTY: SLB/CL: LQCS31
Expiration Date: 0/00/00
CLN# ORD QTY INVOICE QTY SHIPPED QTY
93.000 LB 93.000 LB 86.000 LB
WT 86.000
PCS 15

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
http://www.twmetals.com/invoice-terms.html

SP/16-10-14



Oneal High-Performance Metals Group

Packing Slip



ORDER NO.: 80808543 FROM: CHIC PAGE 2

CUST NUMBER: 1203820 NET WGT: 116.857 REQ. DATE: 10/04/16 EARLY

SHIP TO: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA
SHIP BY: 09/26/16 COMMON CARRIER PREPAID
VIA: FREIGHT: RELEASE NO.: RECEIVING PHONE: WIDTH LENGTH

SALESPERSON: GLENN SCOTT
TERMS: NET 30 DAYS
F.O.B.: DESTINATION
CUST ORD NO.: PO33758

LINE ITEM DESCRIPTION
BROKERS KUEHNE AND NAGEL LTD

AREA	TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH	HGHT
YRC	CRTN STRAP TO BOARD	1.000	59.000	5.5000	294.0000	3
YRC	REDDICRATE	1.000	115.000	4.0000	166.0000	6

UNLOAD TYPE: NONE SPECIFIED

BY: RR
RT 000-

DATE SHIPPED

DATE FILLED

THANK YOU FOR THIS ORDER

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PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
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O'Neal High-Performance Metals Group



Packing Slip

ORDER NO.: 80808543 FROM: CHIC PAGE 3

CUST NUMBER: 1203820 NET WGT: 116.857 REQ. DATE: 10/04/16 EARLY

SHIP TO: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA
SHIP BY: 09/26/16 CAROL STREAM IL 60188
GLENN SCOTT NET 30 DAYS DESTINATION PO33758
CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: FREIGHT: PREPAID
TERMS: NET 30 DAYS
F.O.B.: DESTINATION
CUST ORD NO.: PO33758
VIA: COMMON CARRIER
RELEASE NO.:
RECEIVING PHONE:

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for confiterous non-manufactured wood packing material"

Authorized Test Report Clerk *Justin Ryan* Date: 9/26/16

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.
<http://www.twmetals.com/invoice-terms.html>

ABNAHMEPRÜFZEUGNIS EN 10204-3.1
INSPECTION CERTIFICATE EN 10204-3.1
CERTIFICAT DE RECEPTION EN 10204-3.1
EN 10204:2005-01

Benteler Steel/Tube GmbH - Postfach 1340 - 33043 Paderborn - Deutschland

TW Metals
The Aboretum, Suite 204
760 Constitution Drive
EXTON PA 19341
USA

Dokument-Nr.: 41-939614/001/P

Document No.:
No. du document:

Kunden-Bestell-Nr.:
Purchase Order No.:
No. de commande du client:

Benteler Auftrags-Nr.:
Benteler Order No.:
No. de commande Benteler:

Versandanzeigen-Nr.:
Dispatch Note No.:
No. d'avis d'expédition:

Produkt: NAHTLOSE STAHLROHRE
Product: SEAMLESS STEEL TUBES
Produit: TUBES D'ACIER SANS SOUDURE

Hersteller:
Manufacturer:
Producteur:

Herstellerzeichen:
Manufacturer's brand:
Marque du producteur:

Stempel des Abnahmebeauftragten: WA
Stamp of the inspection representative:
Poinçon du contrôleur:

Stahlschmelzungsverfahren: ELEKTROSTAHL
Steelmaking process: ELECTRIC FURNACE
Procédé d'élaboration de l'acier: FOUR ELECTRIQUE

Prüf-Nr.:
Inspection No.:
No. du certificat:

46004083 TW M49346768

1621379

4158856

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Warmrohrwerk/Zieherei
(DIN EN ISO 9001, ISO/TS-16949 CERTIFIED BY TUV NORD CERT)
(PED 97/23/EC CERTIFIED BY TUV NORD SYSTEMS)



Lieferbedingungen: AMS-T-6736B Type 1, ASTM-A 519-2006, MIL-T-6736B Type 1, AMS6360 Rev. M

Terms of delivery:

Conditions de livraison:

Maße - Toleranzen:

Dimensions-tolerances:

Dimensions-tolérances:

Stahlsorte:

Steel grade:

Nuance d'acier:

Lieferzustand:

Delivery condition:

État de livraison:

Produktkennzeichnung:

Product marking:

Marquage du produit:

FSD: BENTELER AMS6360M-AMS-T-6736 B 1-MIL-T-6736 B 1 4130 Condition N HEAT-NO. CD AQ S
DIMENSIONS WA GERMANY

AEZ = Ätzintensbeschriftung, Etching ink marking, Gravure à l'encre . FK = Farbkennzeichnung, color marking, marquage par couleur . FS = Farbschablonierung, paint stencilling, marquage par peinture . FSD = Farbschablonierung, Color jet printer, Imprimante à jet d'encre de couleur . UK = Laserkennzeichnung, Laser marking, Marquage laser . PKE = Etikettenkennzeichnung, tag marking, marquage sur étiquette . PS = Prägestempel, die stamp, marquage par poinçonnage . TS = Tintenstrahlkennzeichnung, ink jet spray marking, imprimante à jet d'encre .



MB

ABNAHMEPRÜFZEUGNIS EN 10204-3.1
INSPECTION CERTIFICATE EN 10204-3.1
CERTIFICAT DE RECEPTION EN 10204-3.1

Dokument-Nr.: 41-939614/001/P
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No. du document:

Prüf-Nr.:
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Pos.	Stück	Maße	Gesamtlänge	Gewicht	Schmelzen-Nr.	Prüfdruck	Rohr-Nr.-Gruppe	Vielfachlängen
Item	Number	Dimensions	Length total	Weight	Heat No.	Test pressure	Tube number group	Multiple lengths
Poste	Nombre	Dimensions	Longueur totale	Poids	No. de coulée	Pression d'épreuve	Série de no. des tubes	Longueurs multiples
		feet	feet	lbs				

0003	225	0.750" O.D. * 0.049" WT	5388,78	1971	595622			
		20 FT - 24 FT						

Schmelzenanalyse [%] / Heat analysis [%] / Analyse sur coulée [%]

Pos.	Schmelzen-Nr.	C	SI	MN	P	S	CR	MO	NI	CU
Item	Heat No.									
Poste	No. de coulée									

0003	595622	0,310	0,240	0,53	0,007	0,003	0,90	0,17	0,09	0,20
------	--------	-------	-------	------	-------	-------	------	------	------	------

Produktanalyse [%] / Product analysis [%] / Analyse sur produit [%]

Pos.	Schmelzen-Nr.	C	SI	MN	P	S	CR	MO	NI	CU
Item	Heat No.									
Poste	No. de coulée									

0003	595622	0,320	0,240	0,52	0,007	0,002	0,89	0,17	0,10	0,16
------	--------	-------	-------	------	-------	-------	------	------	------	------

Prüfergebnisse / Test results / Résultats des essais

Die Rohre wurden zerstörungsfrei geprüft:

ET-test: acc. to ASTM-A 450; ET - Test method: acc. to ASTM-E 309; for imperfections;

The tubes are non destructive tested:

ET-test: ET with rotating pancake coils; according to EN 10246-3; imperfections;

Les tubes ont passé un essai non destructif:

Notch depth: 0,30 mm; notch width < = notch depth; notch length min. 2 x transducer width (max. 50 mm)

Augensichtkontrolle:

PASSED

Materialverwechslungsprüfung:

PASSED

Maßkontrolle:

PASSED

Visual inspection:

Material conformity test:

Dimensions examination:

Examen visuel:

Vérification des dimensions:

Ergebnisse der mechanischen Prüfung / Results of mechanical testing / Résultats des essais mécaniques

Die Probenahme erfolgte an Vielfachlängen.

The sampling was carried out on multiple lengths.

L'échantillonnage était réalisé aux longueurs multiples.

ABNAHMEPRÜFZEUGNIS EN 10204-3.1

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Zugversuch längs Vollprobe / Tensile test longitudinal Full section test specimen / Essai de traction longitudinale Eprouvette a section complete

Pos.	Proben-Nr.	Schmelzen-Nr.	Probenabmessung	Streckgrenze	Zugfestigkeit	Dehnung
Item	Specimen No.	Heat No.	Specimen dimensions	Yield strength	Tensile strength	Elongation
Poste	No. de l'éprouv.	No. de coulée	Dimensions de l'éprouv.	Limite élastique	Résistance à la traction	Allongement
Anforderungen						
Requirements			mm	Rp 0,2 %	Rm	A2"
Exigences				PSI	PSI	%
				MIN 74985	MIN 95000	MIN 12.00
0003	000001	595622	19,05 X	1,25	106748	22,00
0003	000002	595622	19,05 X	1,25	112839	22,00
0003	000003	595622	19,05 X	1,25	114435	20,00
0003	000004	595622	19,05 X	1,25	107763	22,00
0003	000005	595622	19,05 X	1,25	103702	21,00
0003	000006	595622	19,05 X	1,25	105152	21,00



Randentkohlung / Surface decarburization / Décarburation superficielle

Pos. / Item / Poste: 0003

acc. MIL-T-6736B / AMS-T-6736B, decarburization outside max. 0.23 mm, decarburization outside + inside max. 0.305 mm

Vermerk / Remark / Remarque

Pos. / Item / Poste: 0003

Certificate remarks: The steel grade corresponds to MIL-T-6736B, AMS 6360M, material free from mercury contamination, FAR BAA: 52.225-1 CANNOT COMPLY, DFARS BAA: 252.225-7001 CAN COMPLY, FAR TAA: 52.225-5 CAN COMPLY, No weld repair has been carried out, Country of origin of the material and heat: Germany; see appendix page 1 of 1.

Pos. / Item / Poste: 0003

Macroscopic examination: acc. to ASTM-E 381

Pos. / Item / Poste: 0003

Magnetic particle inspec.: acc. to AMS 2301 J/2640, on prematerial

Pos. / Item / Poste: 0003

Grain size: acc. to ASTM-E 112; Grain size and finer: 5; Grain size: Longitudinal structure micrography, On prematerial

Verkäufer(in) / Sales Personnel / Personne chargée : Mr Schwarz, Tel.: 05254 81-204311, Fax: 204391

Benteler Steel/Tube GmbH
Postfach 13 40
33043 Paderborn
Deutschland
Tel.: +49.5254.81-0 Fax: +49.5254.13666

BENTELER 

Steel/Tube

ABNAHMEPRÜFZEUGNIS EN 10204-3.1

INSPECTION CERTIFICATE EN 10204-3.1
CERTIFICAT DE RECEPTION EN 10204-3.1

41-939614/001/P

Dokument-Nr.:
Document No.:
No. du document:

Prüf-Nr.:
Inspection No.:
No. du certificat:

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Page:



Paderborn Schloß Neuhaus, 20.05.2016, TEL.: 05254.81-201768 FAX: 05254.81-201752

Abnahmebeauftragter
Inspection representative

Contrôleur

i. A. THOMAS GOLLAN / Tat

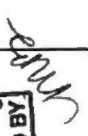
Es wird bestätigt, daß die gelieferten Erzeugnisse den techn. Lieferbedingungen des Auftrages entsprechen. Dieses Dokument wurde mittels EDV erstellt und ist ohne Unterschrift rechtsgültig.
We certify that the supplied products comply with the order specification. This document was prepared by means of electronic data processing and is valid without signature.
Nous attestons que les produits livrés sont conformes aux stipulations de la commande. Ce document a été établi par traitement électronique et est valide sans signature.

Abnahmeprüfzeugnis EN 10204-3.1 / Anhang
Inspection Certificate EN 10204.3.1 / appendix
Certificat de réception EN 10204-3.1 / appendice

Dokument-Nr.
Document No.: 41-939614/001/P
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Halbzeuguntersuchung: Stahlsorte 4130 / Semi finished product examination: **grade 4130** / Produit semi-fini: nuance 4130

Schmelzen-Nr. Heat No. Coulée No.	Position Item Poste	Korngröße Grain size Grosseur de grain (ASTM-E 112)	Härbarkeit (min. Anforderungen) Hardenability (min. requirements) Trempeabilité (exigence min.) (ASTM-A 255)		Magnetpulverprüfung Magnetic particle inspection Essai à la poudre magnétique (AMS 2301J / 2640)		Makroätzung Macrostructure test Essai de macrostructure (ASTM-E 381)		
		min. 5	J(5/16") min. 35 HRC	J(8/16") min. 28 HRC	F max. 0,34	S max. 0,25	max. S 2	max. R 1	max. C 2
595622	003	9-10	39	30	0,030	0,015	S 2	R 1	C 2
Decarburization Depth		Outside 0,050 mm Inside 0,000 mm	<div><div>TW METALS REPORTS JUN 15 16 TEST ACCEPTED BY</div><div></div></div>						

Der Stahl ist frei von Quecksilberverunreinigungen. / The steel is free of mercury contamination. / L'acier est libre des contaminations de mercure.

Paderborn Schloß Neuhaus, 20.05.2016
Tel.: (0)5254.81-201760 Fax: (0)5254.81-201752

Abnahmebeauftragter
Inspection representative
Contrôleur

Thomas Gollan

CERTIFIED TEST REPORT

CUSTOMER PURCHASE ORDER NO.		CUST. ORD. NO.		PRECISION TUBE P/N	
49348850 LINE 001		406417		24A05000580003	
SOLD TO		SHIP TO			
TW METALS		TW METALS			
235 TUBEWAY		235 TUBEWAY			
CAROL STREAM, IL 60188		CAROL STREAM, IL 60188			
UNITED STATES		UNITED STATES			

QUANTITY ORD.	DESCRIPTION	QTY. SHIPPED	DATE SHIPPED
3504 FT	METAL - 6061 ALUM TEMPER - T6 SPEC - AMS 4082P WW-T-700/6F AM 2 AMS-WW-T-700/6C ASTM-B-210-12 LENGTH - 12 FT LGTH TOL +.1250 IN -.0000 IN SHAPE - ROUND FINISH - STRAIGHT EXACT LENGTHS OD .5000 +.0030 -.0030 ID .0580 +.0040 -.0040	3732 FT	05/25/16

MECHANICAL PROPERTIES					
SAMPLE #	TENSILE STRENGTH (P.S.I.)	YIELD STRENGTH (P.S.I.)	ELONGATION IN 2 INCHES (%)	ROCKWELL HARDNESS	AVERAGE GRAIN SIZE (MM.)
1	46,839	40,849	22		
					TM METALS

DESTRUCTIVE TESTS	Comments: FAR BAA COMPLIES, DEARS BAA COMPLIES, FAR TAA COMPLIES	NON-DESTRUCTIVE TESTS	EDDY CURRENT: PASS
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> ACCEPTED BY T S T R O O M A Y 3 1 96 </div>			

CHEMICAL COMPOSITION						ALLOY: 6061		HEAT:		TRACEABILITY #: 161528		RAW MATL VENDOR: PTCZ/67 - Kaiser Aluminum		
						Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
						Min	0.40	0.15	0.80	0.04				Rem.
						Max	0.80	0.70	0.40	0.15				
OTHER ELEMENTS: 0.05 MAX EACH / 0.15 MAX TOTAL														

We hereby certify that the material has been manufactured and tested in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tube's sales acknowledgment. During the manufacturing, testing and inspection, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device employing a single boundary containment. Test results indicate that the material is compliant with the current revision of the RoHS Directive (2011/65/EU).

Melted and Manufactured in USA
QMS Registered to ISO 9001: 2008

By: Art Onalitis
QA Manager

KAISER ALUMINUM FABRICATED PRODUCTS

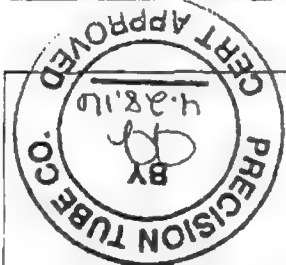
Best Quality

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
2425 STEVENS DRIVE
RICHLAND, WA 99352



CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER:		PTC2767		CUSTOMER PART NUMBER:		SPIRIT-371850		PRODUCT DESCRIPTION:		5.400 LB/PC, 500 LB/0 LB 1.312 OD X .085 WALL ESRT	
KAISER ORDER NUMBER:		LINE ITEM:		SHIP DATE:		KAISER LOT NUMBER:		ALLOY:		TEMPER:	
320128		001		04/23/2016		50751-326		6061		O	
WEIGHT SHIPPED:		QUANTITY:		B/L NUMBER:		DWM/DAT/THKNS:		WIDTH:		LENGTH:	
10563.000 LB		1927.000 PCS		005015						13.984 FT	
SHIP TO:											
PRECISION TUBE CO 287 WISSAHICKON AVENUE N. WALES, PA 19454 USA											
MUELLER INDUSTRIES, INC PRECISION TUBE 8285 TOURNAMENT DRIVE STE. 150 MEMPHIS, TN 38125 USA											



Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	%ELONG IN 2	HARDNESS	CONDUCT.	BEND
50751-326	0001	0001	18.0	7.2	27.0	N/A	N/A	N/A
50751-326	0001	0002	18.1	6.7	25.9	NA	N/A	N/A
50751-326	0001	0003	16.9	6.1	28.1	NA	N/A	N/A
50751-326	0001	0004	17.3	6.3	27.0	NA	N/A	N/A
50751-326	0001	0005	17.7	6.6	26.8	NA	N/A	N/A
50751-326	0001	0006	18.1	6.5	27.6	NA	N/A	N/A
50751-326	0001	0007	16.6	6.0	28.6	NA	N/A	N/A
50751-326	0001	0008	18.2	6.4	28.6	NA	N/A	N/A
50751-326	0001	0009	17.8	6.2	26.7	NA	N/A	N/A
50751-326	0001	0010	17.5	6.6	26.7	NA	N/A	N/A
50751-326	0001	0011	16.5	6.1	27.6	NA	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	.0
F75787	.59	.33	.22	.05	.97	.08	.06	.03	.00	.00	.00	.01	.31

Applicable Requirements:

ASTM-B241-12 NON-STENCILED ASTM-B221-13 ASTM-B345-11 AMS-QQ-A-200/8 97(R07) TYPE I
UNS#A96061 Also conforms to EN 10204 3.1

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

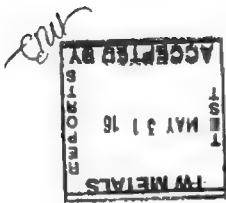
KAISER ALUMINUM FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
2425 STEVENS DRIVE
RICHLAND, WA 99352

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

KAISER Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

JOSEPH AMES, QUALITY MANAGER

MTR#:BHFB0005.GIF

Customer: TWMEXT PO#:M 49358028 SO#:LC531
Item:FB4L00160032 Bundle:BLG8111004 Heat#:56900658

TA CHEN INTERNATIONAL, INC.

MILL TEST REPORT

BLINGHAUS STEEL Abnahmeprüfung/Mill Test Certificate/Certif. de Qualidade EN 10204:2004 / 3.1 BHFB0005 Unsere innere Verweisung / Our int. Ref N/ ref int 5600031087 000010 Datum / Date / Data 16.08.2016		BOLLINGHAUS Steel, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 030458																															
Normen / Standards / Normas Type 304/304L, tolerances acc. to ASTM A484/A484M-16, specifications as per Ta Chen specification dated March 2009: ASTM A276/A276M-16, A479/A479M-16, A182/A182M-15, A262-15 Pract. E, UNS S30400/S30403, ASME SA479/SA479M, SA182/182M, AMS QQ-S-753D, AMS 5639 Rev. H, 5647 Rev. J.																																	
Kunde / Customer / Cliente Ta Chen International, Inc. 5855 Obispo Avenue 90805 Long Beach		Endgültiger Kunde / Final Customer / Cliente Final Ta Chen International, Inc. 85100 109th Street 63158 Pleasant Prairie, WI																															
Bestell Nr./Order Nr./Enc.Nr. L58591		Bestell Nr./Order Nr./Enc.Nr. L58591.01																															
Produktgruppe / Product Group / Grupo Produto AISI 304/L FLAT 1/4 X 1/2"		Gewicht / Weight / Peso 4.030 lb																															
Werkstoff-Nr. Material-no. Qualidade 1.4307		Beschreibung / Description / Descrição X 2 CNI 18-9																															
US DPAF 262.225-7009: MELT SOURCE: United Kingdom / MFG: Portugal. Stainless steel flat bare, hot rolled, straightened, pickled and annealed.																																	
Schmelzen Nr. Cast nr. / Fused nr. 56900658																																	
Chemische Analyse in % / Chemical composition in % / Análise química em %																																	
<table border="1"> <tr> <td>EA+AD</td> <td>Mo</td> <td>0.430</td> <td>Co</td> <td>0.205</td> <td>Cu</td> <td>0.298</td> <td>N</td> <td>0.084</td> <td>Ti</td> <td>0.003</td> <td>Nb</td> <td>0.021</td> <td>Al</td> <td>0.006</td> </tr> <tr> <td>56900658</td> <td>C</td> <td>0.030</td> <td>Si</td> <td>0.226</td> <td>Mn</td> <td>1.830</td> <td>P</td> <td>0.030</td> <td>S</td> <td>0.026</td> <td>Cr</td> <td>18.100</td> <td>Ni</td> <td>8.100</td> </tr> </table>				EA+AD	Mo	0.430	Co	0.205	Cu	0.298	N	0.084	Ti	0.003	Nb	0.021	Al	0.006	56900658	C	0.030	Si	0.226	Mn	1.830	P	0.030	S	0.026	Cr	18.100	Ni	8.100
EA+AD	Mo	0.430	Co	0.205	Cu	0.298	N	0.084	Ti	0.003	Nb	0.021	Al	0.006																			
56900658	C	0.030	Si	0.226	Mn	1.830	P	0.030	S	0.026	Cr	18.100	Ni	8.100																			
ASTM E399 Korbprüfung Yield point Tensile limit Rp 0.2 % Rp 1.0 % Rm Tensile strength Tensão de ruptura Zugfestigkeit Dehnung Elongation Reduktion of area Coef. Estrigão																																	
ASTM A370 Dehnung Elongation Reduktion of area Coef. Estrigão																																	
Problem Nr. Test no. Amostra no. 4032329.01.01																																	
Visual inspection Inspeção visual OK																																	
Dimensional inspection Inspeção dimensional OK																																	
Macroscopic inspection Inspeção macroscópica OK																																	
Material free from segregation defects OK																																	
Bemerkungen / Remarks / Observações Country of origin: Portugal. No weld repair done. Material is free of mercury and radiation contamination.																																	
Confirmamos que este material respeita as especificações de acordo com as normas referidas. We confirm that this material meets the specification according to the mentioned standards. Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht.																																	
Bolinghaus Steel, SA Nuno Silva (N-NS) Quality Control Representative Inspector da Qualidade (water quenched) Annealed Quenched 1900 F (1050 C) Heat treatment Tratamento térmico OK																																	

BLG8111001-04

ACCEPTED BY
SEP 20 16
TW METALS
STANDARD

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>38</u>	SIGNED OFF BY: _____	DATE: <u>OCT 06 2018</u>

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	N	
CORROSION	Y	
CORRECT GRAIN DIRECTION	N	
CORRECT MATERIAL	N	
CORRECT THICKNESS	N	
PHOTO REQUIRED	Y	
CORRECT MATERIAL	N	
CORRECT REF # TO LINK CERT	N	161528
CORRECT MATERIAL IDENTIFICATION	N	
CORRECT M# ON THE MATERIAL	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

MATERIAL CERT REC'D: <u>Y</u>	THICKNESS ORDERED: <u>1.502X.058</u>
QUANTITY RECEIVED: <u>48'</u>	THICKNESS RECEIVED: <u>1.502X.058</u>
QUANTITY INSPECTED: <u>48'</u>	SHEET SIZE ORDERED: <u>Ø</u>
QUANTITY REJECTED: <u>Ø</u>	SHEET SIZE RECEIVED: <u>Ø</u>

MATERIAL: H600176TU.502w.058 DATE: 16-10-06

PO / BATCH NO 33758 / H135822

MATERIAL RECEIPT INSPECTION FORM

MATERIAL RECEIPT INSPECTION FORM

PO / BATCH NO. 33758 / 1135822

MATERIAL: H304130, 250x.500
DATE: 16-10-02

THICKNESS ORDERED: 1250x.500
THICKNESS RECEIVED: 250x.500
SHEET SIZE ORDERED: Ø
SHEET SIZE RECEIVED: Ø

MATERIAL CERT REC'D: 405
QUANTITY RECEIVED: 220 195
QUANTITY INSPECTED: 220 195
QUANTITY REJECTED: Ø

DESCRIPTION	NCR (Check Y/N)	COMMENTS
-------------	-----------------	----------

SURFACE DAMAGE	Y	Ø
CORRECT FINISH	Y	Ø
CORROSION	Y	Ø
CORRECT GRAIN DIRECTION	Y	Ø
CORRECT MATERIAL	Y	Ø
CORRECT THICKNESS	Y	Ø
PHOTO REQUIRED	Y	Ø
CORRECT MATERIAL	Y	Ø
CORRECT REF # TO LINK CERT	Y	Ø
CORRECT MATERIAL IDENTIFICATION	Y	Ø
CORRECT # ON THE MATERIAL	Y	Ø
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	Ø
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	Ø

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	SIZE OF TEST SAMPLE	HARDNESS / DUROMETER READING	HRC	HRB
DUR D				
DUR A				

Testers located in the Quality Office

QC 18 INSPECTION
ENGINEERING SIGNOFF (if required)

INSPECTED BY: 38
DATE: OCT 06 2016

SIGNED OFF BY: 38
DATE: 9-89

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4130N10.750 u.049 DATE: 16-10-06
 PO / BATCH NO: 33758 / M135822

MATERIAL CERT REC'D:	<u>Yes</u>	THICKNESS ORDERED:	<u>1.750 x .049</u>
QUANTITY RECEIVED:	<u>72</u>	THICKNESS RECEIVED:	<u>1.750 x .049</u>
QUANTITY INSPECTED:	<u>72</u>	SHEET SIZE ORDERED:	<u>Ø</u>
QUANTITY REJECTED:	<u>Ø</u>	SHEET SIZE RECEIVED:	<u>Ø</u>

DESCRIPTION	NCR (Check Y/N)	COMMENTS
-------------	-----------------	----------

SURFACE DAMAGE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CORRECT FINISH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CORROSION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CORRECT MATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CORRECT THICKNESS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PHOTO REQUIRED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CORRECT MATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CORRECT # ON THE MATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>38</u>	SIGNED OFF BY: _____	DATE: <u>OCT 06 2016</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID PO33758
Purchase Order Date 9/23/2016
PO Print Date 9/23/2016

Page Number 1 of 2

Order From :

TW METALS
PO BOX 933014
ALANTA, GA 31193-3014
US

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

SEP 23 2016

Line	Reference	Vendor Part Number	Mfg ID	Reg Date/ Taxable	CD	Reg Qty/ Unit of Measure	PO Unit Price	Extended Price
	Line Comments							
	Delivery Comments							

585 768 5600	Vendor Phone	Buyer	Chantal Lavoie
	Customer POID	Customer Tax #	10127-2607
	Terms	Net 30	USD
	Ship To Phone	Currency	FOB
	Ship Via:	FCA -- (Free Carrier)	
	Ship Acct:		

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

YRC COLLECT

FOB

FCA - (Free Carrier)

Currency

USD

Terms

Net 30

Customer Tax #

10127-2607

Customer POID

Chantal Lavoie

Buyer

1	M304B0.250x0.500	304 BAR .250 x .500	10/4/2016	Yes	10/4/2016	f	220.00	\$1.95	\$429.00
MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS									
AS PER ASTM A276 OR ASTM A240									
NOTE: AISI 303 NOT ACCEPTABLE									
2	M4130NT0.750W.049	4130 RD Tube .750	10/4/2016	Yes	10/4/2016	f	60.00	\$6.00	\$360.00
MATERIAL: AISI 4130N SEAMLESS STEEL TUBING									
AS PER MIL-T-6736 OR AMS 6371/6360/6361									
6362/6373/6374									

Line Total:

\$360.00

Line Total:

\$429.00

Note:

9/23/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID PO333758
Purchase Order Date 9/23/2016
PO Print Date 9/23/2016
Page Number 2 of 2

Order From : VU-TWM001
TW METALS
PO BOX 933014
ALANTA, GA 31193-3014
US
Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name	Vendor Phone	585 768 5600	Ship To Contact	Ship To Phone	YRC COLLECT	Ship Via:	Ship Acct:
Buyer	Customer POID	Customer Tax #	Terms	Currency	FOB	FCA - (Free Carrier)	
Chantal Lavoie	10127-2607	USD	Net 30				
3	M6061T6T0.500W.058	6061-T6 RD Tube .500	10/4/2016	48.00	\$1.75	\$84.00	

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR
ASTM B241

4	71401-45	PROCUREMENT	10/4/2016	1.00	\$0.00	\$0.00	
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Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

Line Total: \$0.00
PO Total: \$873.00

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.